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Technical rept.

**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT,
NTS Event 'POOL', 17 March 1976.**

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June 1976

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SDCS EVENT REPORT NO. 91

NTS Event "POOL", 17 March 1976

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	m_b	M_s
NORSAR	14:26:32.1	14:15:04	38 N	115 W	5.7	N/A
Hagfors	14:26:40.5	14:15:03	38 N	116 W	6.3	4.6

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

14:15:01.7 37.3N 116.3W 5.8 N/A

The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period data is obtained from their bulletin. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at all SDCS stations were rotated.

Long-period signals were recorded at all SDCS stations. All LP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Operating gains of the LP channels at RK-ON were unknown because the calibration and operation db settings could not be determined from the station log. The absence of data on the LP horizontal channels at RK-ON is due to a mathematical zeroing process used to eliminate numerous noise spikes. Horizontal LP channels at all SDCS stations were rotated.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

-a-

STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be $16^\circ \pm 5^\circ$ based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

HYPOCENTER DETERMINATION

INPUT FOR EVENT 17 MAR 76
14:15:00.0 37.000N 116.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST		
LAO	14 17 53.6	-0.1	0.3	12.0	35.4
RK-ON	14 19 46.1	-0.1	-0.5	21.1	42.8
CPSO	14 20 24.1	-0.0	0.5	24.7	84.5
WH2YK	14 20 38.0	0.2	0.5	26.3	339.2
FN-WV	14 21 01.7	-0.2	-0.1	28.9	76.1
HN-ME	14 22 09.3	0.6	0.2	36.7	60.4
NAO	14 26 32.1	-0.4	-0.9	73.2	24.1

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
14:15:10.1	37.531N	116.115W	53. CALC	0.3	5	7
14:15:01.7	37.275N	116.307W	0. REST	0.5	4	7

CALC			REST		
1	.	1	1	.	1
0	.	0	0	.	0
0	0.3	2	0	0.3	2
.
0	0.0	0	0	0.0	0
0	.	0	0	.	0
0	0.0		0	0.0	

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.69
MAJOR 61.6KM. MINOR 37.9KM. AZ= 31 AREA= 7339 SQ.KM. REST

DATA SUMMARY

INPUT FOR EVENT 17 MAR 76
14:15:00.0 37.000N 116.000W 0KM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MR	MS		
LAO	EP	14 17 53.6		SAB	99.9	9999.				
RK-ON	EP	14 19 46.1		SPZ	0.7	1956.	6.10			21.1
RK-ON	LQ	14 27 36.0		LPT	12.0	9999.				
RK-ON	LR	14 28 34.0		LPZ	13.0	9999.		0.0		21.1
CPSO	EP	14 20 24.1		SPZ	0.8	648.	5.96			24.7
CPSO	LQ	14 28 41.0		LPT	15.0	1151.				
CPSO	LR	14 30 17.0		LPZ	13.0	1656.		5.73		24.7
WH2YK	EP	14 20 38.0		SPZ	0.9	171.	5.36			26.3
WH2YK	LQ	14 29 46.0		LPT	19.0	486.				
WH2YK	LR	14 31 53.0		LPZ	15.0	805.		5.44		26.3
FN-WV	EP	14 21 01.7		SPZ	0.8	73.	5.16			28.9
FN-WV	LQ	14 30 54.0		LPT	16.0	804.				
FN-WV	LR	14 33 00.0		LPZ	14.0	1125.		5.63		28.9
HN-ME	EP	14 22 09.3		SPZ	1.3	1371.	6.37			36.7
HN-ME	LQ	14 34 58.0		LPT	20.0	286.				
HN-ME	LR	14 37 53.0		LPZ	13.0	220.		5.03		36.7
NAO	EP	14 26 32.1		AB	0.9	171.	5.82			73.2

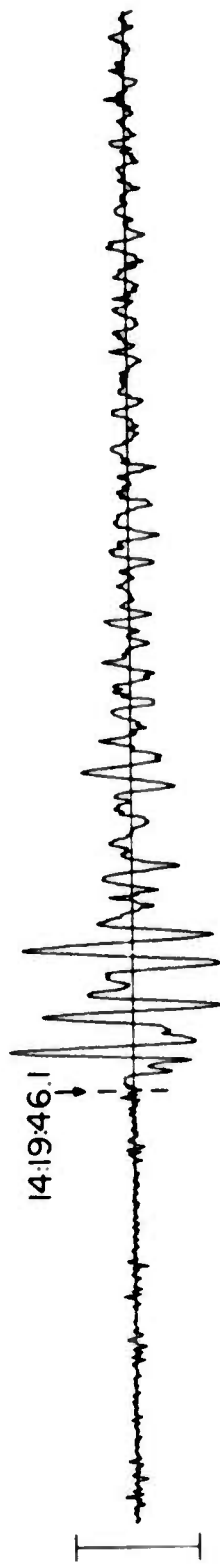
ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA
14:15:10.1	37.531N	116.115W	53. CALC	5.58	0.41	5
14:15:01.7	37.275N	116.307W	0. REST	5.79	0.46	6

HN-ME NOT USED IN CALC RUN SP AVG. MAG.

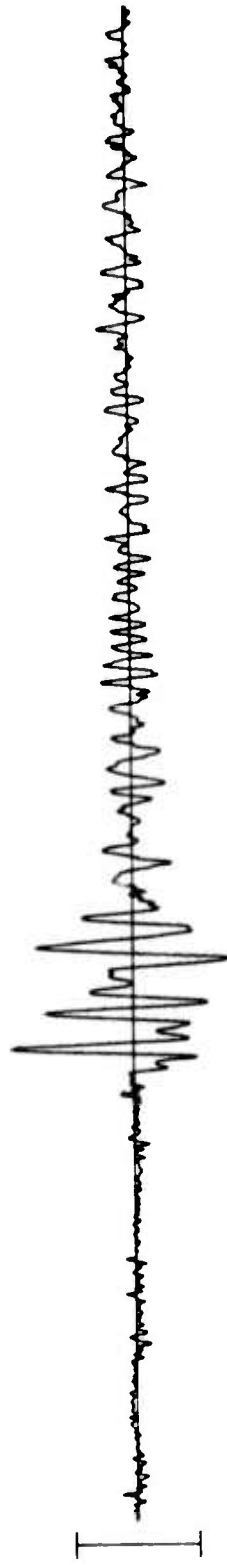
Average long-period magnitude (M_s) is based on Rayleigh wave observations in the period range of 17 to 23 seconds per cycle.

RK-ON 17 MAR 76

SPZ
1995.84 MU



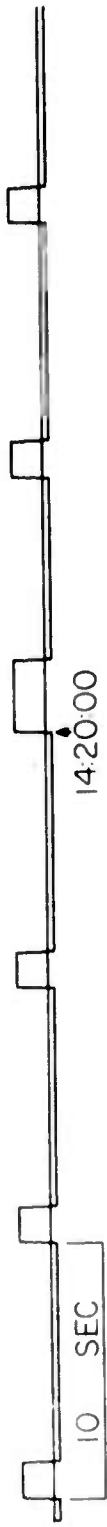
SPR
1522.99 MU



SPT
307.63 MU

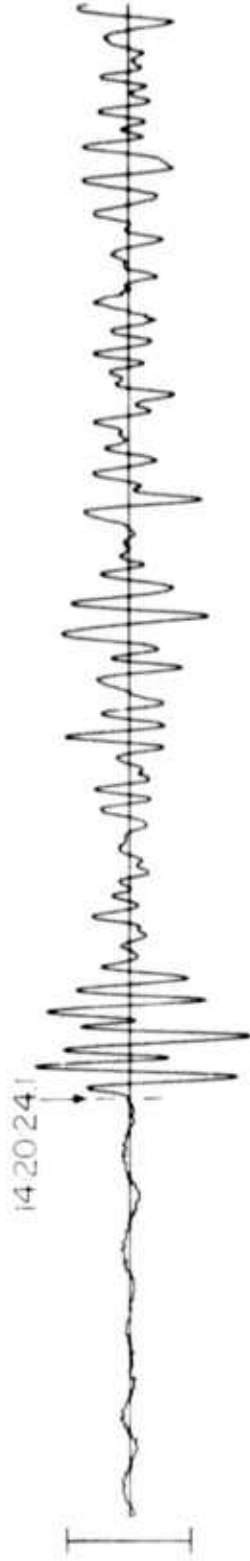


TIME

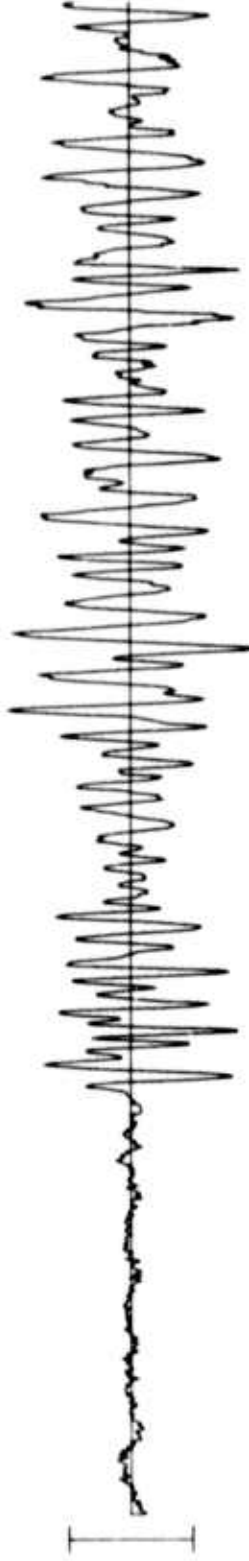


CPSO 17 MAR 76

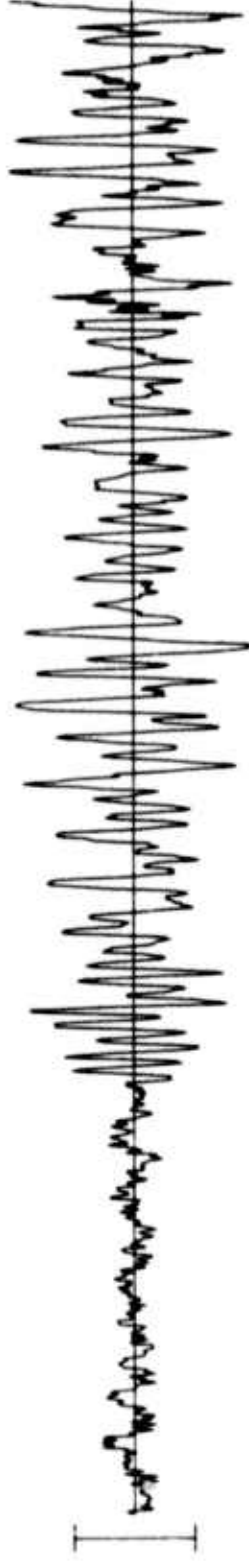
SPZ
417.99 MU



SPR
113.56 MU



SPT
67.15 MU

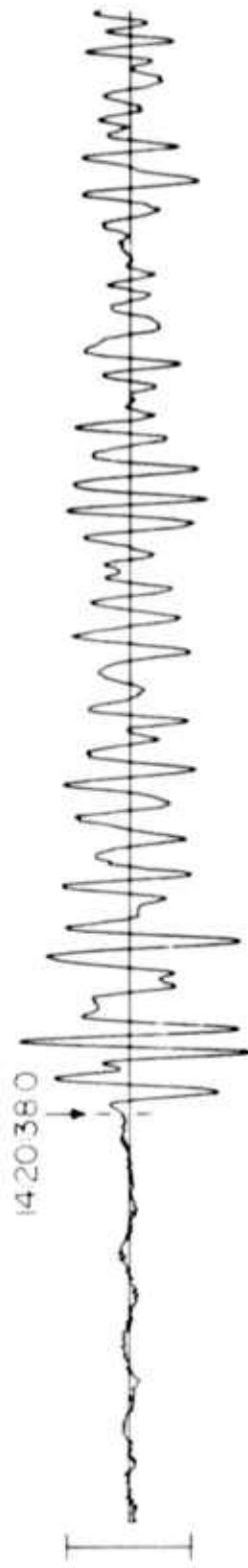


TIME

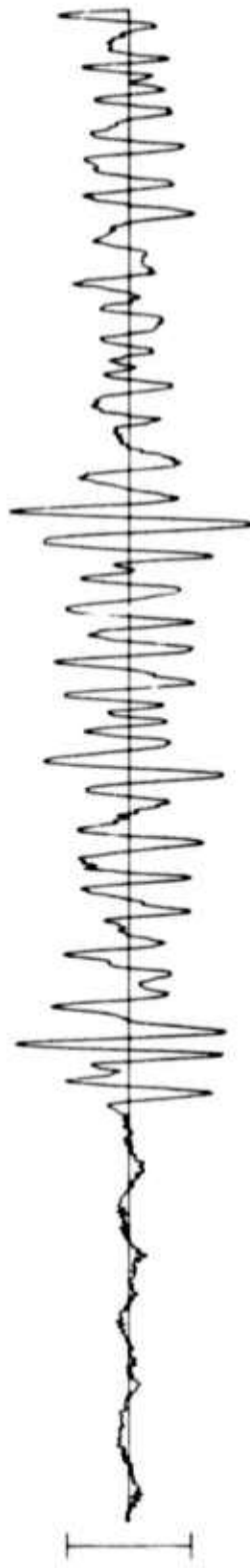


WH2YK 17 MAR 76

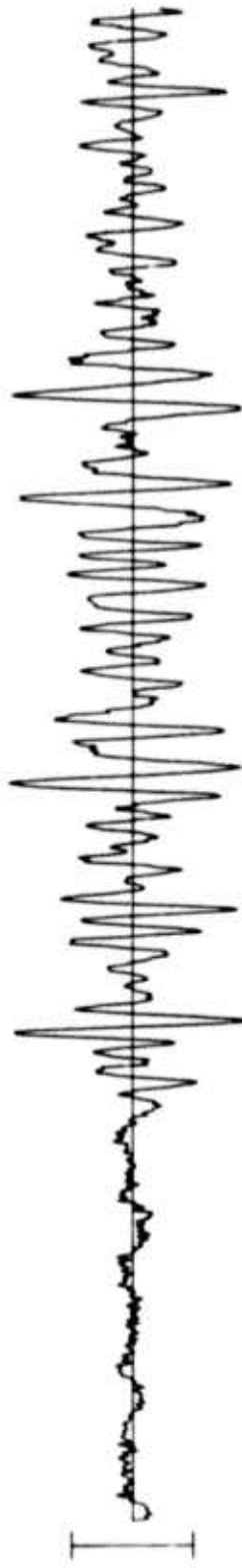
SPZ
105.20 MU



SPR
70.28 MU



SPT
48.37 MU

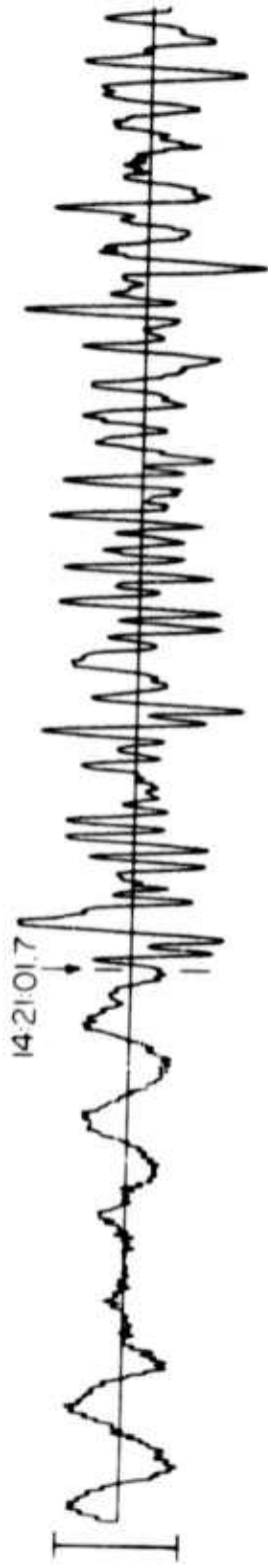


TIME



FN-WV 17 MAR 76

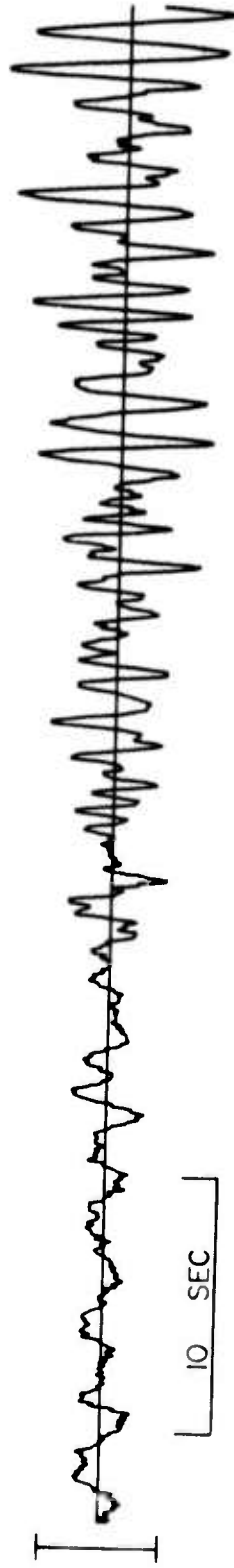
SPZ
61.43 MU



SPR
47.93 MU

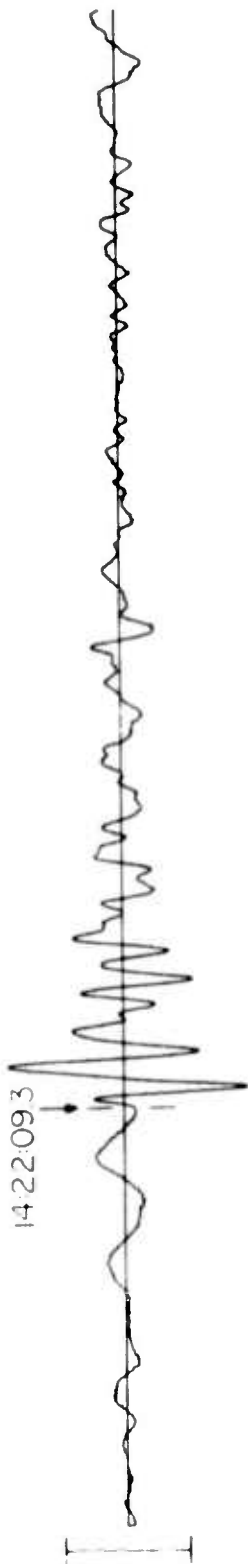


SPT
46.60 MU

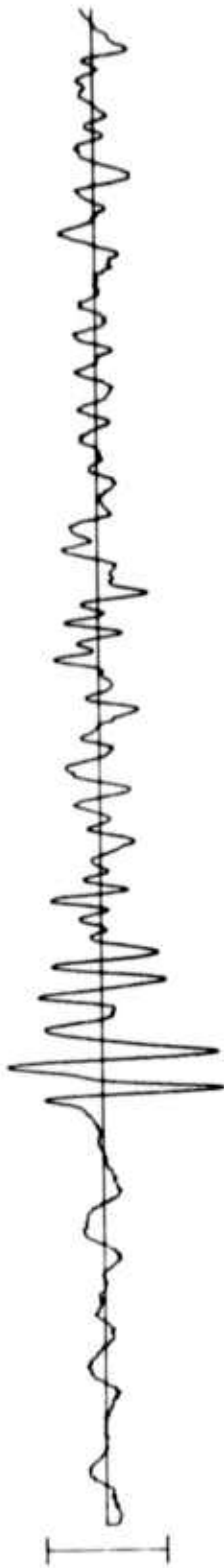


HN-ME 17 MAR 76

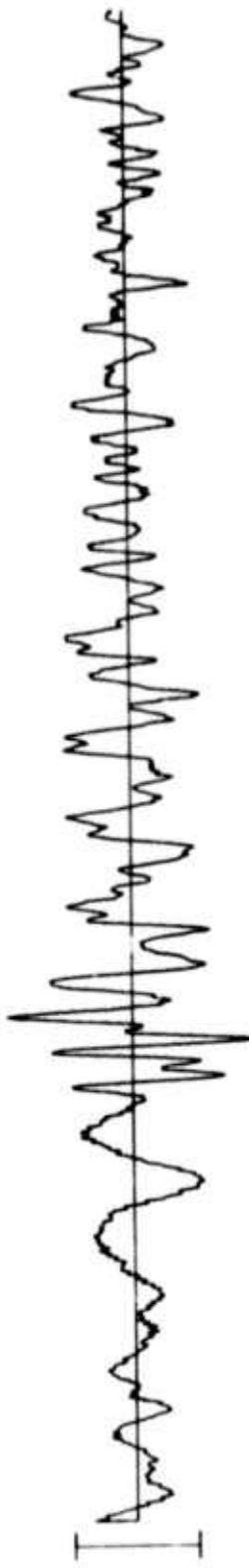
SPZ
518.91 MU



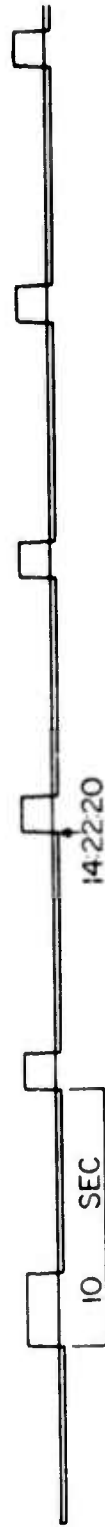
SPR
301.00 MU



SPT
180.45 MU

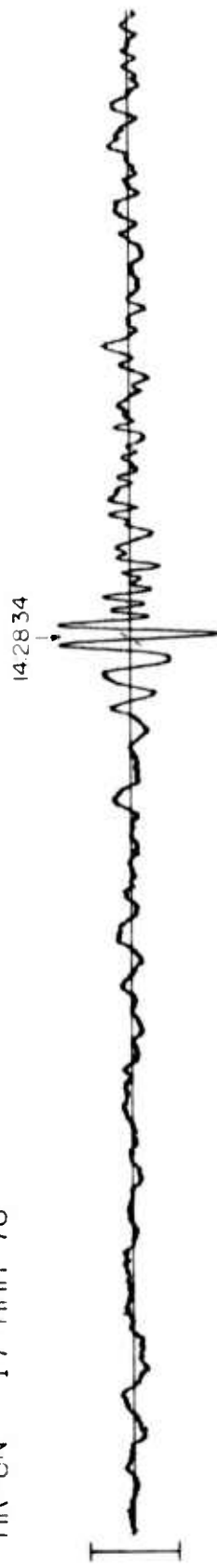


TIME



RK-ON 17 MAR 76

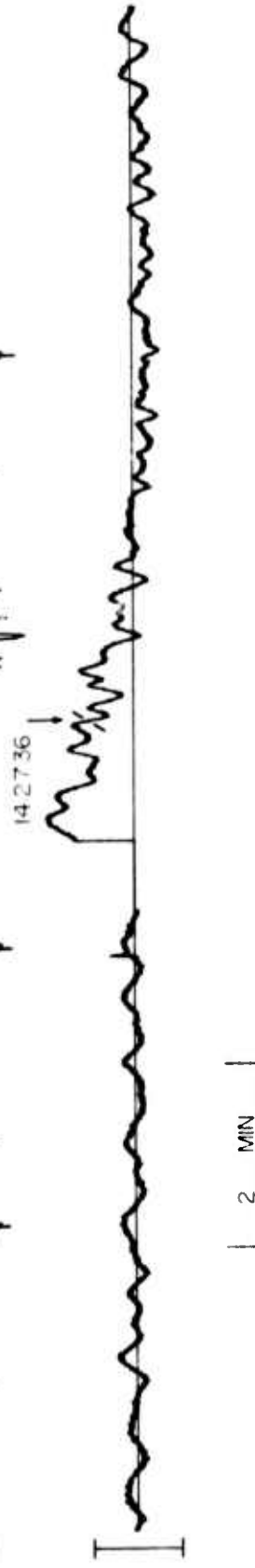
LPZ
UNKNOWN



LPR
UNKNOWN



LPT
UNKNOWN



2 MIN

CPS0 17 MAR 76

LPZ
6210.54 MU

14 30.17

LPR
4804.14 MU

14 28.41

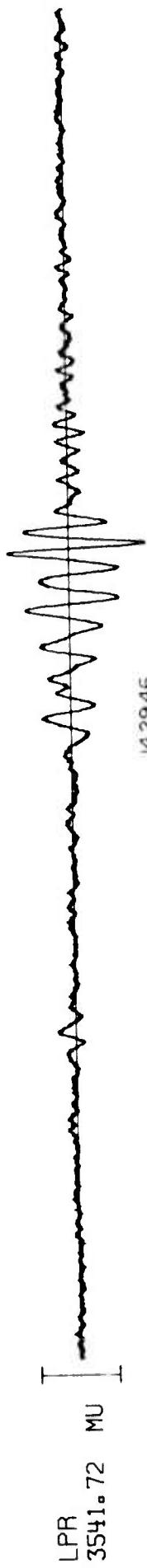
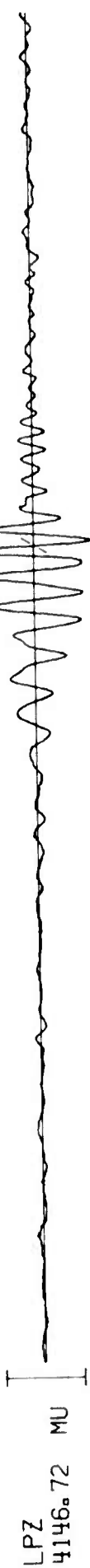
LPT
5611.48 MU

TIME

2 MIN

14 30.00

WH2YK 17 MAR 76



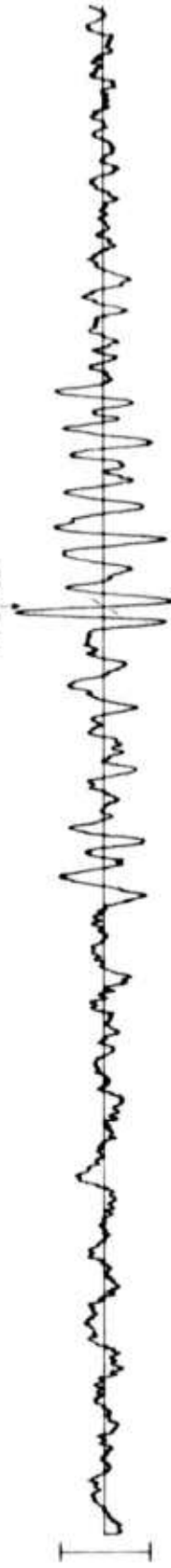
FN-WV 17 MAR 76



HN-ME 17 MAR 76

LPZ
649.05 MU

14 37 53

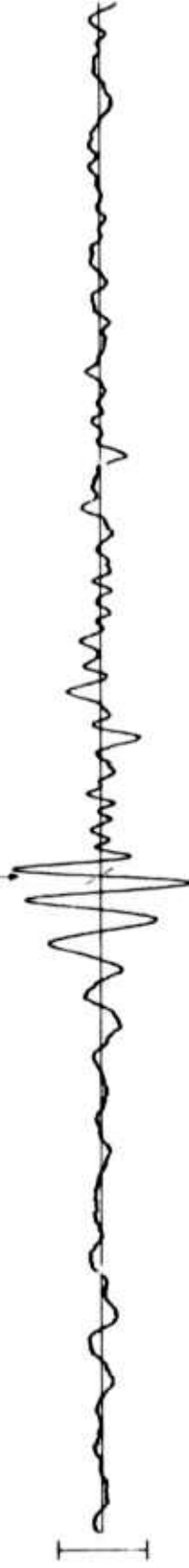


LPR
593.89 MU

14 34 58



LPT
2506.83 MU



TIME

